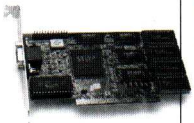

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User Guide Shocker DX version 1.0

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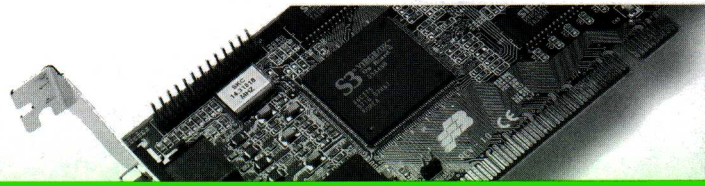
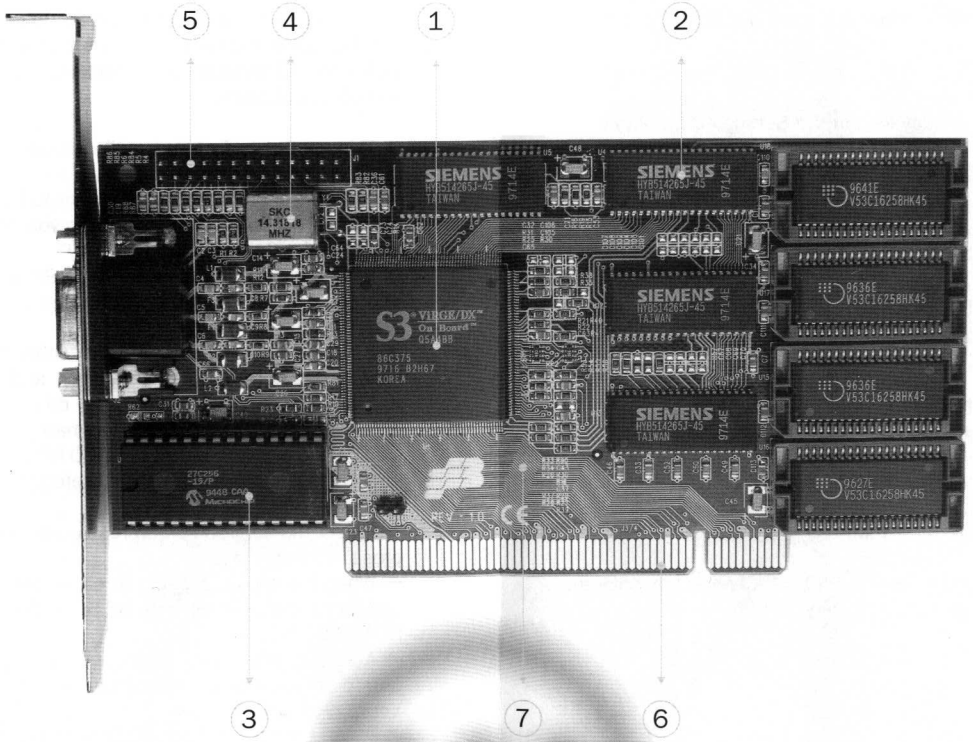


User Guide

Shocker DX

S3™ ViRGE DX Video and Graphics Accelerator



Shocker DX Features

① → High performance S3™ ViRGE DX DRAM-based 64-bit 2D/3D graphics engine featuring integrated 24-bit RAMDAC with 170MHz-output pixel rate and programmable dual clock synthesizer
→ Three times the 3D speed of ViRGE; 25M texels
→ Unique S3™ StreamsProcessor™ support of on-the-fly stretching and blending of primary RGB stream and RGB or YUV (video) secondary stream
→ Unique S3™ StreamsProcessor™ for high quality and performance software/hardware video playback
→ Z-buffering for 3D video
→ Flat and Gouraud shading for 3D
→ High quality/performance 3D texture mapping with bi- and trilinear texture filtering
→ Horizontal and vertical interpolation for video playback
→ Depth cueing, fogging and alpha blending 3D effect
→ MIP mapping
→ Perspective correction with a parallel processing perspective engine
→ DPMS 2.0 standard Green PC power saving feature
→ DDC 2B monitor communication support

② → 24-bit video memory (four slots filled: 2MB; eight slots filled: 4MB) 256Kx16-bit

③ → Video BIOS

④ → Clock signal generator

⑤ → Feature connector-to be used for video-capturing devices

⑥ → Glueless PCI 2.1 compliant

⑦ → High-quality PCB (printed circuit board)

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Hardware Installation Guide

To install your Shocker DX, you should first power down your system and choose an available PCI slot. Insert the Shocker DX card into the slot and screw tight
Connect the monitor cable to your Shocker DX card's VGA connector (DB15 connector)
Power up the system

Memory Upgrade Guide

To upgrade your Shocker DX from 2MB to 4MB memory please complete the following steps:

1. Turn off your system before removing the Shocker DX card.
2. Place the your Shocker DX on a firm, flat, non-static hard surface.
3. Insert four 256Kx16-bit (50ns or faster) EDO DRAM (40-pin SOJ) chips into the available sockets. Make sure the notched end on the socket corresponds to the notch at one end of the sockets.
4. Re-install the card and power up your system.

NB: We recommend that your dealer perform the memory upgrade.

Shocker DX Drivers Package

The Shocker DX is supported with the following drivers:

➔ Windows 95
➔ Windows NT 4.0
➔ Windows 3.1x

If your Shocker DX has come with a CD-ROM with all the Flagpoint S3 drivers currently available, please follow the instructions on the "ReadMe" document.
If your Shocker DX has come with a set of diskettes, please see following.

Windows 95 Driver

➔ This applies to factory supplied diskettes and CD-ROM if present
➔ Start Windows 95.
➔ Click the Start button.
➔ Double-click on the Display icon in the Setting->Control Panel folder. You can also click the right mouse button anywhere on the desktop and select the Properties option from the pop-out menu.
➔ Click the Settings tab.
➔ Click the Change Display Type... button.
➔ Under Adapter Type click the Change button.
➔ Click the Have Disk button.
➔ Insert the Windows 95 display driver diskette and set the path to Win95 or if you have the CD-ROM set the path to the directory where your CD-ROM is (Set the path to ViRGEDX\Win95) and click the OK button.
➔ Select S3.INF and click the OK button.
➔ Select the appropriate S3 driver from the list and click the OK button. If a message stating that one or more driver files is older than the files on the system, respond YES to overwrite the files.
➔ Click the Close button.
➔ Select the appropriate resolution using the Desktop Area and Color Palette options.
➔ Click the Apply button. A System Settings Change box appears.
➔ Click Yes to restart your PC.

The Windows 95 S3 driver installation is now complete.

Windows 3.1x Driver

The DOS version of the Windows Setup program installs and modifies all of the necessary files. Follow these steps to install the S3 Windows 3.1, Windows 3.11, and Windows for Workgroups driver:

➔ This applies to factory supplied diskettes and CD-ROM if present
➔ If you are working in Windows exit to DOS.
➔ From the DOS prompt, change to your Windows directory; for example, C:WINDOWS
➔ From the Windows directory, type Setup and press <Enter>. This will start the DOS based Windows Setup program.
➔ Use the arrow keys to highlight "Other (Requires Disk Provided by Hardware Manufacturer)" and press <Enter>.
➔ Insert the Windows 3.1x display driver diskette and set the path to ViRGE DX\Win31 or if you have the CD-ROM set the path to the directory where your CD-ROM is (Set the path to ViRGEDX\Win31\your language preference) and click the OK button.
➔ Select the desired screen resolution and color depth and press <Enter>.
➔ When the choice appears to either press <Enter> to update or <Esc> to replace, BE SURE TO PRESS "<ESC> TO REPLACE" !!!
➔ After pressing <Esc> to replace, Setup may ask for the path or diskette again. When the file copying is complete, the Setup program will close.
➔ Restart Windows. Your driver installation is now complete.

Windows NT™ Driver

➔ Open the Windows NT Control Panel and select the "Display" icon
➔ Select "change other display type"
➔ Insert the "Windows 95 and Windows NT" diskette in your floppy drive
➔ Select the driver path and S3 ViRGE DX device
➔ Select "Yes" on system configuration prompt
➔ Select "New" driver option on system prompt and all necessary files will be installed automatically

How to playback motion pictures with the Shocker DX VGA card using the XingMPEG player:
Install the Shocker DX Windows 95 or Windows 3.1x driver following the driver installation guide.
Install the XingMPEG playback program for the version of Windows relevant to your system: Insert the XingMPEG program diskette into the drive A: or B: Run "SETUP.EXE" program under Windows; the program components will be installed automatically.
Restart your computer; run XingMPEG by double-clicking the Xing icon, select the MPEG files you want to play and click "Play"
Note: Detailed installation procedures can be found in the driver diskettes; please refer to the "ReadMe" document.